

## ABSTRACT

The Inmarsat Capacity Expansion invention, in an embodiment to retrofit a standard Inmarsat-B mobile earth station (MES), combines standard MES equipment and functionality with an

- 5 assembly containing a diplexer/switch and a digital signal processor, a second SCPC modem that has configurable modulation and error correction capabilities, control signals and paths, and related management and control software and hardware to enable the transmission and reception of standard service types and higher data rate services.

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